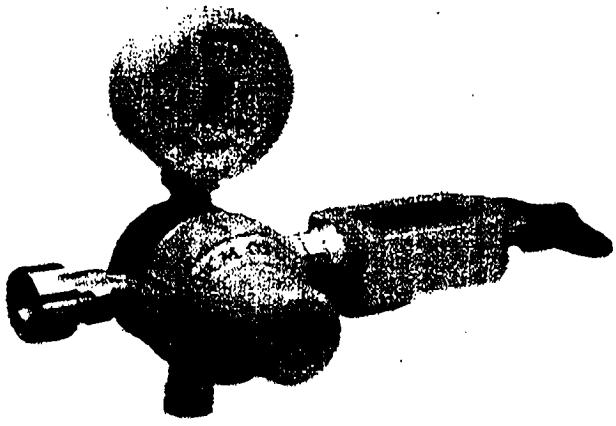
SERIES-0 REGULATOR INSTRUCTIONS FOR USE



COMWELD MEDICAL

TABLE OF CONTENTS

		Page
1.0	INTRODUCTION	3
2.0	GENERAL DESCRIPTION	3
3.0	SAFETY PRECAUTIONS	4
4.0	PARTS IDENTIFICATION	5
5.0	OPERATIONAL CHECK	6
6.0	EQUIPMENT USE	6
7.0	CLEANING	7
8.0	EQUIPMENT TESTING	7
9.0	SPARES AND ACCESSORIES	8
10.0	SPECIFICATIONS	10
11.0	SERVICE RECOMMENDATIONS	11
12.0	WARRANTY	11

1.0 INTRODUCTION

These instructions are intended to provide users with information on the features, use and care of the Series-O medical gas regulator.

The instructions should be read carefully by every intended user of a SERIES-O regulator in any of its applications before attempting to use it to ensure that they are fully conversant with all the information on the features, use and care of the regulator.

2.0 GENERAL DESCRIPTION

The SERIES-O regulator is intended to be connected to high pressure medical gas cylinders in order to supply medical gases at reduced and regulated pressures similar to those from medical gas pipeline systems. The regulated pressure gas is supplied to medical devices intended for typical applications like Respiratory Therapy, Resuscitation and Suction.

The SERIES-O regulator is a reliable, compact, preset single stage regulator. Pressure reduction is effected by means of an encapsulated pressure regulating valve, protected by a unique triple filtration system in the high pressure side to protect the regulator and downstream equipment from entry of foreign particles. The SERIES-O regulator does not require user pressure adjustment. It has been factory preset to deliver the outlet pressure specified in AS 2896 or applicable Standard. Since it is always adjusted to deliver outlet pressure, it is essential that it should be connected to the high pressure gas cylinder only when attached downstream devices are fitted with an outlet valve.

Leak Test

To test for leaks fit the regulator to a full gas cylinder and block off the regulator outlet. Open the cylinder valve and apply an approved leak detection solution to all regulator body connections (inlet, outlet, pressure gauge, pressure relief valve and bonnet). No bubbles should be generated within 30 seconds.

Approved leak detection solutions are BUBBLES™ or SNOOPY™.

Outlet Set Pressure and regulator seat performance

The outlet set pressure of the regulator should be periodically checked, and adjusted if required. This requires special test equipment and should only be carried out by trained service personnel. Contact your nearest authorised service agent for further information.

Pressure Relief Valve Setting

The operation of the pressure relief valve should be periodically checked. This requires special test equipment and should only be carried out by trained service personnel. Contact your nearest authorised service agent for further information.

9.0 SPARES AND ACCESSORIES

9.1 SERIES-O Accessories

Listed below are some of the accessories suitable for use with a SERIES-O regulator. It is recommended that if any other accessories are intended to be used with a SERIES-O regulator, your nearest authorised distributor should be contacted to check the compatibility of the accessory.

Description	Part No
EZI-FLOW 0-15 L/min oxygen flowmeter	515800
EZI-FLOW 0-2.5 L/min oxygen flowmeter	515824
EZI-FLOW 0-15 L/min air flowmeter	515820
Flowmeter Gauge type 0-14 L/min oxygen	TM17
Humidifier	TM11
Twin-O-Vac	TM117G
Oxygen Demand Valve Resuscitator	552095
Equinox Demand Valve with 2m hose	550011

9.2 User Replacement Parts

Listed below are the items considered to be user replaceable parts. It is recommended that the owner keep stock of items such as Bodok seals to ensure that the SERIES-O regulator is always ready for use.

Description	Part No
Bodok seal, 10 pack	552121
Inlet filter RB38 , 10 pack	551024
Inlet filter/retainer RB38/RB39 , 10 pack (Screw connections)	552105
Inlet filter RB38 yoke retainer, 10 pack (Yoke inlets)	551028
Inlet O-ring 110 Neoprene, 5 pack (Screw connections)	301703

9.3 NOTES

10.0 SPECIFICATIONS

Part No	Gas	Inlet Connection	Rated Inlet Pressure, P1	Outlet Pressure, P2	Standard Discharge, Q1
518800	Oxygen	AS 2473 Type 10 (G5/8 RH INT - Side)	20 000 kPa @ 15°C	400 kPa	125 l/min
518804	Oxygen	AS 2473.3 (Pin Indexed Yoke)	20 000 kPa @ 15°	400 kPa	125 l/min
518808	Nitrous Oxide	AS 2473.3 (Pin Indexed Yoke)	21 000 kPa	400 kPa	125 l/min
518809	Air	AS 2473.3 (Pin Indexed Yoke)	20 000 kPa @ 15°C	400 kPa	125 l/min
518810	Nitrous oxide/Oxygen 50/50 nom.	AS 2473.3 (Pin Indexed Yoke)	20 000 kPa @ 15°C	400 kPa	125 l/min
518803	Oxygen - (Air Viva)	N/A	20 000 kPa @ 15°C	400 kP	125 l/min
518895	Oxygen	AS 2473 Type 10 (G5/8 RH INT - Vert)	20 000 kPa @ 15°C	400 kPa	125 l/min

Notes:

AS 2473.3 (Pin Indexed Yoke) inlet connections for the nominated gas

SIS - Sleeve Indexed System outlet connections from AS 2896 for the nominated gas

Pressure Relief Valve:

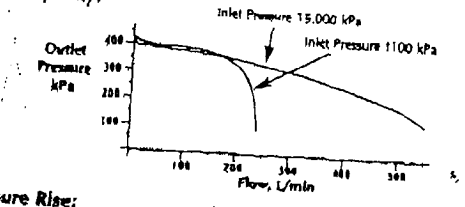
The pressure relief valve fitted to SERIES-O regulators releases gas at pressures greater than 800 kPa.

Filters:

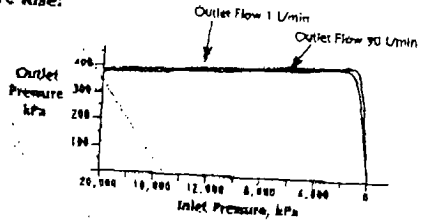
All SERIES-O regulators are fitted with three inlet filters:

- a 66 micron sintered filter in the inlet connection,
- a fibre strand filter upstream of the seat capsule,
- a 34 micron sintered filter fitted to the seat capsule.

Flow Capacity:



Pressure Rise:



11.0 SERVICE RECOMMENDATIONS

A SERIES-O regulator is a critical link in the supply of medical gas to a patient. To ensure that the regulator is always in a safe, reliable, useable condition it is recommended that the unit be placed on a preventative maintenance program.

The preventative maintenance program should include as a minimum fixed yearly and every three years servicing. Depending on usage, an additional more frequent service (e.g. six monthly, quarterly or monthly) is recommended.

Frequent Inspection program:

- Operational Check (Section 5.0)
- Leak test (Section 8.0)
- Outlet Set Pressure and regulator seat performance (Section 8.0)

Fixed Yearly servicing

- Frequent Inspection
- Inlet filter, Bodok seal and inlet O-ring replacement (Section 6.0)

Fixed Every Three Years Servicing

- Fixed Yearly servicing
- Pressure relief valve check
- Regulator seat capsule replacement

12.0 WARRANTY

CIGWELD Pty. Ltd. warrants the purchaser that this equipment is free from defects in material and workmanship for a period of three years from the date of purchase (conditions apply).